



OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

November 1996 Issue

Home Page : WWW.EASYSTREET.COM/OTVARC

The Prez Returns!

I'm Baaacck. Cycle Oregon was great. This year I was a middle-of-the-pack one-of-the-masses rider. I only had the handheld on just long enough each day to listen and remember how hard the Hams work. As a rider I want to thank the OTVARC hams who helped; KZ7T, KB7POR, W7FBP, W7JWG, KA5OLH, N7LMK, K7YBZ as well as the rest of the staff and volunteers. And..... I didn't fall off the bike; not even once!

VOTE. VOTE. VOTE. I know you have been hearing about elections, campaigns, candidates, ballot measures ad nauseum. I must however, bring up the subject again. There are **THREE ELECTIONS** that OTVARC members should be interested in coming up soon.

- 1- Be sure to vote for the candidates and measures of your choice on Election Day Tuesday November 5.
- 2- The ballots for ARRL Northwest Division Director have been mailed out to ARRL members. The two Marys are running. Mary Lou Brown NM7L our incumbent director is running for re-election. Mary Lewis W7QGP our previous director is also a candidate. Make sure you read the material enclosed with your ballot and are sure which Mary is your choice.
- 3- The OTVARC Officer & Trustee election is also held in November. Nominations were held at the October club meeting. The nominees are **President**, Betty Mickley N7REX; **Vice President**, Jim Schaeffer KB7ADH; **Secretary**, Sharon Coan KA7NAN and Dale LeBarron W7FBP; **Treasurer**, Hanford VanNess KE7BB; **Trustee** (2 positions open), Steve Coan KA7MOW, Will Sheffield N7THL and Jack Smithson KA7HOJ.

Ballots will be sent to all members. Results will be announced at the December Holiday Extravaganza.

Speaking of the December Holiday Extravaganza (check with Betty N7REX for the real name), it promises to be the best yet. Betty has recruited some real top notch professional entertainment. I am not kidding!!! And, No, it is not Elvis!!! If you miss this, you'll be sorry. Mark your December calendar NOW. It will be at the Elks on Wednesday December 11; our regular club meeting night.

Thanks to Betty again for securing out October meeting speaker. Roy Lewallen W7EL gave an enlightening presentation on antenna analysis and what those dB numbers really mean or don't mean. For those of you who weren't there, have I got a deal for you on a great 6 dBi gain antenna. If you need antenna modeling/analyzing software, check Roy's ad on page 148 of October QST.

Prez Sez - Cont'd Page 3

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HAM RADIO EQUIPMENT

JOSEPH REAVES
N6FRA

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Estate Appraisals

New editor needed
See Page 6

Minutes of Board Meeting 9-25-96

1. Those in attendance: Chuck Mickley, Janet Bell, Alan Chinnock, Betty Mickley, Stan Griffiths, Will Sheffield, Al Berg.
2. Meeting was called to order a 7:01 p.m. by secretary Alan Chinnock.
3. Minutes of the 8-28-96 board meeting were approved as revised.
4. The treasurer's report was distributed.
5. A "wish list" of items regarding the club finances was discussed. The items included:
 - An approved budget for the coming year
 - A column in the report for the current months income and expenses
 - A budget-to-date column in the report
6. Those present at the meeting attempted to estimate the expenses and income for the remainder of the year so as to get a better idea of the financial status of the club. It appears that we will be about \$500 higher in expenses than income for the year.
7. Betty Mickley volunteered to head up the annual Christmas party. It was moved and seconded to budget up to \$1000 for the event. Passed unanimously.
8. Laura McDonald has been loaned an HW-101 and MFJ antenna tuner under our equipment loan program.
9. The board discussed ideas for assisting members. Some possible ideas were:
 - A. Reimbursement for tuition to license preparation classes.
 - B. Some form of "free" membership.
 - C. Break for young people.
 - D. Money available at board discretion to give memberships to individuals.
 - E. Publish class schedules.
 - F. Publish test schedules.
10. It was decided to submit the idea of half-price memberships to the general membership.
11. There was some discussion about the pricing of advertising and the billing process. Al Berg will follow up on some specific questions.
12. Due to a lapse in mail pickup it was decided that Stan Griffiths will pick up the OTVARC mail and see that it gets to the proper individuals.
13. It was moved, seconded, and passed to donate \$25.00 to the American Cancer Society in the name of Kay Remson, wife of Ron Remson W7YOW.
14. There was some discussion about revising the tasks in the club by creating a program chairman or program committee to relieve the vice president of this task. With this structure it would be possible to select a person or persons with the necessary skills and contacts to set up a good program schedule.
15. The meeting was adjourned at 8:43 p.m.

Respectfully submitted, Alan R. Chinnock KB7POR Secretary

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Waiktoberfest 1996

The American Diabetes Association wishes to thank OTVARC and the other amateur radio operators who helped with this year's Walktoberfest on Saturday, October 12th. Our presence was appreciated by the approximately 900 walkers and other volunteers who took part in the event to raise about \$100,000 for the American Diabetes Association. This is the 5th year of the event and OTVARC members have been the primary communications link for all of those years. Jim Schaeffer KB7ADH and Tim Taylor have been past net controls. Last year's event was my first experience at being net control --of any event.

I am very grateful to the loyal group of volunteers who have done the event for many years and to the newcomers who filled in the vacancies for those who couldn't help out this year. In particular I want to thank H.D. Landers WA0BRU and his wife Julie who were visitors to our September club meeting. Not only did they volunteer at that time, but they arrived early for their shift and willingly assumed another position as well. Another ham who was new to the event was Marc Chamberlin WA7PXW. Marc came down and donated a few hours even though he was busy packing and taking care of last minute details for his trip to Russia the next morning -very, very early. Bob Cowan KI7QI and Russ Cowan KB7ZGQ were new on the help list, but have been involved with the walk before. The last of the new hams was Bud Carswell who wanted to get some public service experience. Who better to "Elmer" him than Bill Merwin N7VZF. Although many of the regulars had conflicts that day, a sizable group worked the event for yet another year. They were Bill (mentioned above), Chuck Mickley KI7CL, George Bates KC7LOP, Joan Schouweiler N7LMK, Rick Schouweiler KA5OLH, Ira Rubin KF7QS, Neil McKie WA6KLA and Geno Gray KB7VNP. Thanks to all who helped and gave of their time.

I am also grateful to Sandy Mikelow K7OOZ and the Northwest Astronomy Group who approved our use of the 145.19 repeater which has served us well both years I have been net control. ARRG again this year authorized our use of a backup repeater. In the earlier years of the event we used ARRG repeaters exclusively. Without the continual support of repeater groups we would not be able to do such a good job of communicating for these public service events. It takes many dedicated hams to keep the systems up and running and I for one appreciate their time.

73, Betty Mickley N7REX

Prez Sez from Page 1

The OTVARC equipment lending "library" program is continuing to grow. The HW-101 is in use. We have another HF transceiver available and several others promised if needed. If you know of anyone (new ham, school group, etc.) who needs a HF transceiver to get on the air, contact Stan W7NI (649-0837) or me KB7ADH (245-2518).

Thank you from the Portland Marathon to those who helped with communications on Sunday Sept. 29. Although the ham communications were organized by PARC, I heard a lot of OTVARC members helping too. On this event I spend most of my time on the commercial frequencies working as one of the four race course coordinators. All of the traffic the hams handle sure makes our work easier on race day.

The Santa Clause Christmas Parade is coming up Friday November 29; the day after Thanksgiving. Call me (245-2518) if you would like to help. I will be in Arizona that day; but Alan

(KB7POR) has agreed to be in charge/net control during the parade. This is a fun event. You can bring the entire family and then start early Christmas shopping right afterward.

Have I used up all the space you allotted me yet Bill? I think that was a polite "yes shut up" I heard. See you at the November club meeting. AAAAAAAAdh

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INTRODUCTION TO PACKET RADIO - PART 17 - by Larry Kenney, WB9LOZ

How did you do on the review quiz in the previous part of this series?

If you haven't taken it, you might want to read part 16 and take the quiz now before reading any further.

Here are the correct answers and the series part numbers where you can read more about the subject:

- 1 - Answer C is correct. The three TNC modes of communication are Command, Converse and Transparent. Command mode is for communicating with the TNC. The Converse mode is for normal QSOs, connects to a BBS or mailbox, etc. and Transparent mode is used for binary file transfer. (Part 2)
- 2 - The UNPROTO command is used for setting the transmit path for both beacons and CQs. (Parts 3 and 13)
- 3 - The CHECK command is used for setting a timeout value in your TNC. If set to a value other than zero, the TNC will attempt to recover a connection after a certain specified time if nothing is received from the other station. This command is used in combination with the AX25L2V2 command. (Part 13)
- 4 - The MCON command (Monitor while CONnected) is used to monitor other traffic on the frequency while you're connected to another station. (Part 3)
- 5 - When monitoring, the asterick indicates the station that you actually hear the packet from. The MRPT command must be ON for the monitor display to show digipeaters. (Part 2 and 3)
- 6 - The packet node network improves communications because packets are acknowledged from your station to the first node, and then node to node to the destination. A packet doesn't have to reach the destination before an ack is returned. (Parts 4, 10 and 11)
- 7 - When using the node network (no matter who you're connected to) you disconnect by going to command mode on your TNC and entering a D, just like at other times. The fact that you're using several nodes or are connected to a distant station makes no difference. The network will take care of disconnecting all stations and links. (Parts 4, 10 and 11)
- 8 - N6ZYL-2 would appear as N6ZYL-13 if he connects to you using a node. The nodes change the SSID using the formula 15-N. (Part 10)
- 9 - The two most probable causes for a packet not to get through are collisions with other packets on the frequency and noise due to weak signals. (Part 15)
- 10 - BBS commands:
 - a. To receive a list of messages: enter L
 - b. To download a file in the General (G) directory called FCCEXAMS.89, you'd enter DG FCCEXAMS.89
 - c. To enter a private message to Jim, WA6DDM: SP WA6DDM @ W6PW.CA (The "@ W6PW" is not needed if you're using the W6PW BBS.)
 - d. To read message 7134 with headers: RH 7134
 - e. To find out what stations were heard on port B of the BBS, you'd enter JB (Parts 5, 6, 7 and 8)
- 11 - If you wanted to send an NTS message to Tom Smith, 123 Main Street, in Keene, NH 03431, you would enter the following at the BBS prompt >ST 03431 @ NTSNH (Parts 6 and 12)
- 12 - A message with a STATUS of BF means that the message is a bulletin and that it has been forwarded to all stations that are supposed to receive it from the BBS you're using. (Part 8)

Packet Test - Cont'd Pg 10

News From All Over



From the Secretary Alan Chinnock KB7POR

Another month, another article. I have been so busy that I have not had a chance to think much about what to write. To start off, I have just returned from Cycle Oregon IX. We are almost up to X. If you were ever looking for a way to break yourself of the ham radio habit this may be the way. 12 hours a day for 7 days on the radio. Just imagine a week long Field Day. Really, its not that bad. I even talked on the radio on the way home from Lakeview. The ride had the usual road rashes, dislocated shoulders, etc. We picked up and comforted the weary. One weary rider looked at his watch on a 95 mile day and said "11 hours and 23 minutes, not bad for a guy with one lung. Sure I'll ride on in". I don't think I would have made it that far with two lungs, and I am younger than he is. Then there was the dog vs. bicycle. I bet you think the rider had stitches for the bite. Wrong!! The dog was treated by animal control for a broken leg.

Then there was the Fifth Wednesday Radio Contest on July 31st. A whole bunch of you have tried to convince me that you were the only one on the air that night. This is like each of you being an only child. This does not sound right. The least that you can do is answer each other. At least one person took the effort to send in his results. But then that is another story. I guess the winner is Jim Graffy AE7W with a claimed score of 0.

Then for the other story. He mailed his log to me shortly after the contest. I received it at the board meeting September 25. Snail mail may be slow, but with the help of several people outside the USPS it can really get slow. To start with, I moved and just missed the cutoff for the current Callbook. One loop through the system. Then Jim got ingenious. He sent it to the contest chairman at OTVARC. Never mind that his letter arrive at the club mailbox about the same time that everyone with a key to the mailbox decided that someone else was picking up the mail. Eventually it got to me.

Here is a new net for you to tune in to. 6m SSB on Monday evenings. They meet at 8:15 p.m. local time on 50.140. (Simplex of course.) KK5CP in Gresham is the net control so you will know where to point your antenna for starters. Immediately following this net is the 2m net on 144.240. Specifically the time is 9:00 p.m. KB7SJE has been heading this one up lately.

A New Idea

The board of directors has discussed a new idea to assist younger hams become involved in our hobby and club. We are considering a half price membership for students. This would be \$6.00 for new members and \$5.00 for renewals. These amounts will approximately cover the cost of the newsletter mailings. This would be one way that we could promote the growth of ham radio among younger hams.

You will be hearing more about this at a future meeting. Just thought inquiring minds would want to know.

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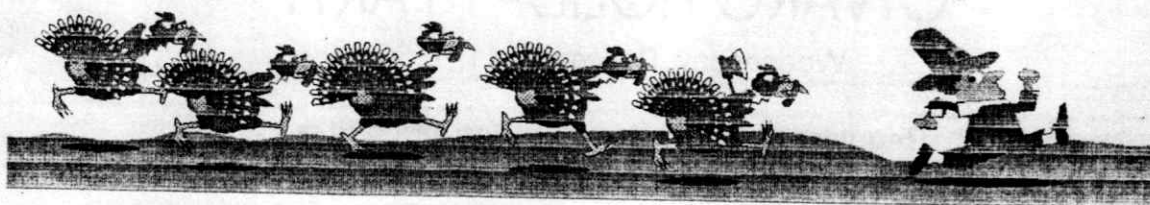
This should not come as a suprise to any of you. This will be my last issue as Editor.

I started a new "Part Time" job and after the first 3 days, it became a "Full Time" job, 5 days a week, until after 6 in the evening. I am afraid that with this new job as well as my job at the studio on weekends, there is no time left for much and the time I do have is going to be spent with my family.

Again, this should not come as a suprise to anyone. I have been warning everyone that there needed to be a new editor found.

I have "Enjoyed?" my tenure as editor for the last 3 years but all good things must end.

I have all the graphic files needed by the new editor. I would recommend that person use PageMaker or something similar. I'll be glad to help with the first issue. After that, they fly solo.



OTVARC TRAVELERS CAMPOUT
NOVEMBER 15TH - 17TH
SPECIAL THANKSGIVING POTLUCK
HOLIDAY RV PARK AT DEPOE BAY, OR.
LOCATED ON NORTH EDGE OF TOWN AND ON THE
WEST SIDE OF HIGHWAY 101.

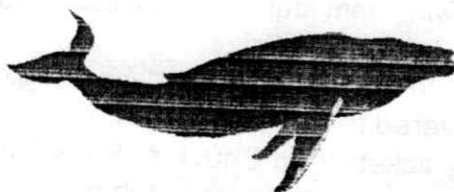
WAGONMASTERS ARE TOM & BARB BAILEY
KA7NAM & KA7WTF - 503-538-2266.

THE TRAVELERS WILL FURNISH THE TURKEY &
THE HAM FOR THE SATURDAY EVENING POTLUCK
AT 5:30PM. THE REST IS A PLANNED MENU.
SO IF YOU PLAN TO ATTEND, CONTACT TOM OR
BARB.

SPACES ARE RESERVED SO WE NEED A HEAD
COUNT. IF YOU DON'T WANT TO CAMP YOU CAN
ALWAYS STAY IN A MOTEL & STILL JOIN IN THE FUN.

FOR TALK IN, USE 147.22 REPEATER
OR 144.44 SIMPLEX.

SEE YOU THERE.



OTVARC HOLIDAY PARTY

Wednesday, December 11, 1996

Regular meeting night at the Beaverton Elks
6:00-7:00 PM Regular Elks Dinner at regular price

7:00-7:30 Brief Club Meeting

Followed by

The Gibsonian

-a local group of musicians and vocalists with a great deal of background in the music and entertainment field. This smooth vocal group has performed throughout the U.S., and Canada. They have performed with many of the stars in the recording business.



the **GIBSONIAN**

featuring: Bobby Gibson KN7J, Carol Lynn and Leslie Lynn.

7:30-10:00 PM Live Music and Social Time
with light snacks, coffee and punch

About 8:15 PM Election Results
About 9:15 PM Raffle Drawing
(Must be present to win)

Raffle Drawing

Lots of fun prizes to win: Ham stuff, Holiday stuff and other stuff

Grand Prize

\$250.00 gift certificate for either HRO or Washington Square
(to be purchased and delivered to the recipient within days of the drawing)

buy your lucky tickets from Chuck or Betty Mickley
at the November or December Club meetings.

\$1.00 each or 6 for \$5.00

Communications for Cycle Oregon

A quick explanation of what Cycle Oregon is. It is put on by the Oregon State Department of Tourism. It is a seven day event and has over 2000 touring cyclists from 45 or more states. It covers 450 to 500 miles and travels through the small towns and country sides of Oregon. I have done the communications for 8 years and most of the hams have been with me for 6 or 7 years. Some of the small towns have a population of 100 or so. It is something to see 2000 riders, with their 1500 tents, and support people invade these towns. The towns make very good money off of these events, with the riders buying everything in the town. Plus the towns are paid to serve the food to the riders.

Cycle Oregon has gone from each ham having one radio - straight 2-meters in Cycle Oregon II and III to at least two radios, one of them being dual-band and some with a third commercial radio. I, as net control, will use up to five radios with a scanner and two back-up radios. I even talk on CB (good buddy) to loggers. I use up to five isopoles. Two 2-meter, two commercial and one 450 MHz for cross band. We are some what forced to do everything simplex because we talk to AMR Medical, Oregon State Police (OSP), on motor cycles, and staff which are all on simplex. This is the first year that we could talk to OSP and they could talk back. They use our commercial frequency which keeps us from having trouble with OSP dispatch, but I have all of their repeater frequencies with their weird splits and tones and have permission to use them in an emergency, which I have done. This is the first year that the staff had commercial mobiles. So I had additional people to deal with. It actually helped as I didn't have to try to go through a ham when I thought the staff person might be there. Now I just call them direct. The staff had 8 commercial mobiles.

I am always on a mountain top, up to 8000 ft high, to make this work so I get up at 3:30 AM and head for the mountain, trying to find inconspicuous dirt roads in the dark and sometimes fog, complaining that every one else gets to sleep a little more. Well, our over-night in Prospect changed my mind. When I got to my motel room that evening, the parking lot was full of cars. When I got up at 3:30 AM to leave, I noticed that all of the cars were gone, which was quite a shock. Asking around that night, I found out that the food crew leaves at midnight. Oh well, enough for feeling sorry for myself. Actually all of the volunteers put in long hours. The hams are on the job for 12 to 14 hours a day.

On Cycle Oregon II and III, I had 6 hams; now there are 14. Bert - W7JWG, is the director, Dale - W7FBP is with the medic service (Dale has been there the longest). Ken - W7DYX is a rider services; 7 hams with SAGs. Carol WA7YEC, Rick - KA5OLH, Ron KA7SIK, Don N7TDR, Larry K7YBZ, Jim N7RDN, Alan KB7POR. Joan N7LMK, rides with the operations person. She goes to the hospital and check on the riders that have been injured. Ames N7NPD with the site van. Jim KB7ADH and I have worked as net controls. For the last two years, Jim had other responsibilities and this year he rode the event.

Before the event, Jim and I go out twice to find the best high spots along the route. Then Jim, Ken W7DYX, Carol WA7YEC and I go out twice more; once for 3 days and the last time for 5 days. The last two trips are to find out if we really can work the entire week simplex. The way that it works is one of us sits on the high point while one of the others tries to go from start to finish. If we can't make it then we will all start looking for a better place or establish a second spot for two net controls that day. I will drive over 6000 miles. Jim, Ken and Carol will exceed 3000 miles just to make sure that it works. My biggest problem is the responsibility they have put on the hams for all of the communications so I have to make sure that there are no doubts that we can deliver. We have many injured people down during the week. Several will need to go to the hospital and some of them are Code 3. When we hear of a rider down, I contact the medic and within minutes, they are there. We have received so many compliments for what we do. While I was on the Crater Lake rim this year, I had 3 different people come up and thank me. They were also wondering if they could get his kind of help in their community. I just tell them to find a ham radio club. They were from Chicago, St. Louis and I forgot where the other was from. But I know that we have changed many people's minds about ham radio and now they know it isn't CB. Even OSP can't say enough about our communications abilities. One fellow came up and told me that the only reason he rides this is that he feels safe because of the hams. He was from New York. Believe me when you hear things like that is makes it all worth while. By the way, by the time you read this, Jim and I will have driven Cycle Oregon X for next year. I could go on for pages with stories about things that have happened and some of the operating procedures we used to make this work but it is getting too long.

So until next time - 73 Randy

- 13 - Answer D is correct. The date/time shown on a message when it's listed is the time the message was received at the BBS you're using. Please note that the date/time of a message indicates whatever time the BBS your using is set to, and that could be local time or zulu time, UTC, GMT, or whatever. Most BBSs are now set to zulu time (UTC, GMT), but a few still use local time. When you read a message, you should be able to read the date and time the message was written from the message header. (Part 8)
- 14- To find the call of the HOME BBS of your friends, use the White Pages Directory. If the BBS you're using has the WP feature enabled, you will find the I command to be useful, otherwise send an inquiry to WP. (Part 9)
- 15- The maximum value for MAXFRAME is 7. MAXFRAME is the number of packets transmitted by your TNC contiguously, and the number of unacknowledged packets the TNC can have outstanding. You decrease MAXFRAME when the conditions are poor. Your TNC will send fewer packets at one time, so there will be less information to collide with other packets on the frequency and less chance of information being wiped out by noise. (Part 14)

There is no passing grade on the quiz. It was designed for you to check your general packet knowledge, and you'll have to be your own judge of that. I hope you did well on it!

73.....Rick - KB7OGD @ KB7OGD.OR.USA.NOAM



OTVARC Club Contacts

OTVARC Executive Board

President	Jim Schaeffer	KB7ADH	245-2518
Vice President	Neil McKie	WA6KLA	649-4264
Secretary	Alan Chinnock	KB7POR	636-2237
Treasurer	Brad Beach	N7NVC	657-1781
Trustee			
Trustee	Chuck Mickley	KI7CL	642-1284
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Stan Griffiths	W7NI	649-0837

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services			
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Mary Berg	N7TRW	640-5456
Member Badges	Carl Clawson	WS7L	629-5496
Newsletter Editor	OPEN		
Newsletter Layout	OPEN		
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nominating Committee	Hanford Van Ness	KE7BB	246-7975
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	642-1284
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Dick Emmel	W7KJZ	245-1928
Scholarship	Carl Clawson	WS7L	629-5796
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Randy Stimson	KZ7T	297-1175
Technical	OPEN		
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training(Code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(Upgrade)	OPEN		
VE Test Group	Gerry Villhauer	WA0UCQ	693-7222
VHF/UHF	OPEN		

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full Page	8" X 10"	\$200 for 6 mo.
Half Page	8" X 5"	\$125 for 6 mo.
Qtr Page	4" X 5"	\$75 for 6 mo.
Bus. Card	2" X 3"	\$35 for 6 mo.

Meetings: We have two meetings per month. The board meeting is on the fourth Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

How To Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.

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ADVERTISING TERMS

ALL NEW: Parts are not interchangeable with previous design.
DESIGN SIMPLICITY: Manufacturers cost is cut to the bone.
FOOLPROOF ADJUSTMENT: No provision for same.
ADVANCED DESIGN: Ad writer doesn't understand.
FIELD TESTED: No bench test equipment.
HIGH ACCURACY: All parts fit correctly.
DIRECT SALES ONLY: Manufacturer had argument with the distributor.
RUGGED: Too heavy to lift.
LIGHTWEIGHT: Lighter than rugged.
UNMATCHED: Almost as good as the competition.
YEARS IN DEVELOPMENT: Finally got one that will work.
BREAKTHROUGH: Figured out a way to sell it.
DISTINCTIVE: A different color and shape than the competition.
PROVEN PERFORMANCE: Will operate through the warranty period.
Courtesy CCARC and others.....

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